

Serial No. 09/890,143
Docket No. SHIG 19990241
Amendment C under Rule 116

AMENDMENTS TO THE CLAIMS:

Please amend claims 8 and 11. This listing of claims will replace all prior versions and listings of claims in the Application:

Claims 1-7 (canceled)

Claim 8 (currently amended): An optical element forming method, comprising the steps of forming a multilayer film composed of high refractive index material and low refractive index material on a substrate to control a phase and an amplitude of emerging rays, and adjusting a wavefront phase of the emerging rays by cutting away a portion of a surface thereby roughening the surface of the multilayer film in accordance with an amount of adjustment of the wavefront phase.

Claim 9 (original): An optical element forming method according to claim 8, wherein the multilayer film is formed in a number of cycles larger than that necessary to saturate a reflectance.

Claim 10 (previously amended): An optical element forming method according to claim 8, wherein cutting-away of the multilayer film is controlled by detecting a difference between a plurality of materials that forms the multilayer film.

Claim 11 (currently amended): An optical element forming method, comprising the steps of forming a multilayer film composed of high refractive index material and low refractive index material on a substrate in a number of cycles larger than that necessary to saturate a reflectance, further forming a correction film on the multilayer film, and cutting away a portion of a surface thereby roughening the surface of the correction film or the correction film and the

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multilayer film in accordance with an amount of adjustment of a wavefront phase of emerging rays.

Claims 12-27 (canceled)

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AMENDMENTS TO THE DRAWINGS:

The attached sheets of drawings include changes to the following:

Sheet 1: This sheet, which includes FIGS. 1 (a) and 1 (b), replaces the original sheet including FIG. 1. The word "vacum" has been corrected to read --vacuum--. "FIG. 1" on the bottom of the page has been deleted. Figures 1 (a) and 1 (b) have been appropriately labeled.

Sheet 2: This sheet, which includes FIGS. 2 (a) and 2 (b), replaces the original sheet including FIG. 2. "FIG. 2" on the bottom of the page has been deleted. Figures 2 (a) and 2 (b) have been appropriately labeled.

Sheet 3: This sheet, which includes FIGS. 3 (a) and 3 (b), replaces the original sheet including FIG. 3. "FIG. 3" on the bottom of the page was deleted. Figures 3 (a) and 3 (b) have been appropriately labeled.

Sheet 6: The waves on the graph have been labeled appropriately to match the specification.

Sheet 7: This sheet, which includes FIGS. 8 (a), 8 (b), and 8 (c) replaces the original sheet including FIGS. 7 and 8. "FIG. 8" on the bottom of the page has been deleted. Figures 8 (a), 8 (b) and 8 (c) have been appropriately labeled. FIG. 7 remains unchanged.

Sheet 8: This sheet, which includes FIGS. 9 (a) and 9 (b), replaces the original sheet including FIG. 9. "FIG. 9" on the bottom of the page has been deleted. Figures 9 (a) and 9 (b) have been appropriately labeled.

Attachment: Replacement sheets - FIGS. 1, 2, 3, 6, 8 and 9, as amended.

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